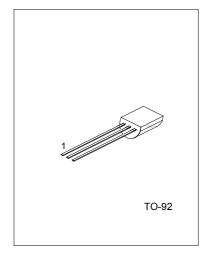
# UTC 2SC1815 NPN EPITAXIAL SILICON TRANSISTOR

### AUDIO FREQUENCY AMPLIFIER HIGH FREQUENCY OSC NPN TRANSISTOR

#### **FEATURES**

- ${\bf *Collector\text{-}Emitter\ voltage:}$
- BVceo=50V
- \*Collector current up to 150mA
- \* High hFE linearity
- \*complimentary to 2SA1015



1:EMITTER 2:COLLECTOR 3. BASE

### ABSOLUTE MAXIMUM RATINGS ( Ta=25°C ,unless otherwise specified )

PARAMETER	SYMBOL	RATING	UNIT		
Collector-base voltage	Vсво	60	V		
Collector-emitter voltage	VCEO	50	V		
Emitter-base voltage	VEBO	5	V		
Collector dissipation(Ta=25°C)	Pc	400	mW		
Collector current	Ic	150	mA		
Base current	lB	50	mA		
Junction Temperature	Tj	125	°C		
Storage Temperature	Tstg	-55 ~ +150	°C		

#### ELECTRICAL CHARACTERISTICS(Ta=25°C,unless otherwise specified)

LLEOTRIOAL OTTAINATERIO 1100(1a-25 C,utiless ottlerwise specified)						
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector cut-off current	Ісво	Vcb=60V,IE=0			100	nA
Emitter cut-off current	IEBO	V <sub>EB</sub> =5V,Ic=0			100	nA
DC current gain(note)	hFE1	VcE=6V,Ic=2mA	70		700	
	hFE2	V <sub>CE</sub> =6V,Ic=150mA	25			
Collector-emitter saturation voltage	Vce(sat)	Ic=100mA,IB=10mA		0.1	0.25	V
Base-emitter saturation voltage	V <sub>BE</sub> (sat)	Ic=100mA,I <sub>B</sub> =10mA			1.0	V
Current gain bandwidth product	fτ	Vce=10V,lc=50mA	80			MHz
Output capacitance	Cob	V <sub>CB</sub> =10V,I <sub>E</sub> =0,f=1MHz		2.0	3.0	pF
Noise Figure	NF	Ic=-0.1mA,VcE=6V		1.0	1.0	dB
		Rg=10kΩ,f=100Hz				

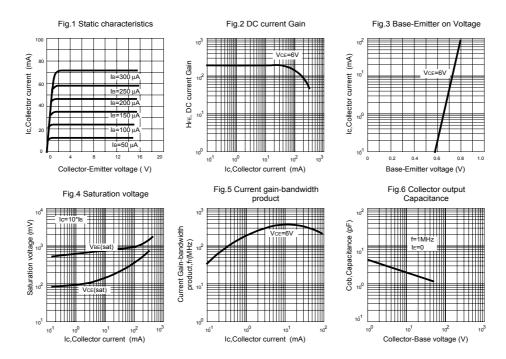
UTC UNISONIC TECHNOLOGIES CO. LTD

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#### **CLASSIFICATION OF hFE1**

RANK	Υ	G	L
RANGE	120-240	200-400	350-700

#### TYPICAL CHARACTERISTIC CURVES



This datasheet has been download from:

www.datasheetcatalog.com

Datasheets for electronics components.